

0570
0606

#17



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,817

DATE: 06/12/2002

TIME: 11:25:27

Input Set : A:\00530-094001.TXT

Output Set: N:\CRF3\06122002\J081817.raw

ENTERED

```

4 <110> APPLICANT: Polyak, Kornelia
5     Porter, Dale
6     Sgroi, Dennis
7     Krop, Ian
9 <120> TITLE OF INVENTION: HIN-1, A TUMOR SUPPRESSOR GENE
11 <130> FILE REFERENCE: 00530-094001
13 <140> CURRENT APPLICATION NUMBER: 10/081,817
C--> 14 <141> CURRENT FILING DATE: 2002-05-31
16 <150> PRIOR APPLICATION NUMBER: 60/270,973
17 <151> PRIOR FILING DATE: 2001-02-23
19 <150> PRIOR APPLICATION NUMBER: 60/351,908
20 <151> PRIOR FILING DATE: 2002-01-25
22 <160> NUMBER OF SEQ ID NOS: 32
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 104
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
32 Met Lys Leu Ala Ala Leu Leu Gly Leu Cys Val Ala Leu Ser Cys Ser
33 1      5      10      15
34 Ser Ala Arg Ala Phe Leu Val Gly Ser Ala Lys Pro Val Ala Gln Pro
35      20      25      30
36 Val Ala Ala Leu Glu Ser Ala Ala Glu Ala Gly Ala Gly Thr Leu Ala
37      35      40      45
38 Asn Pro Leu Gly Thr Leu Asn Pro Leu Lys Leu Leu Ser Ser Leu
39      50      55      60
40 Gly Ile Pro Val Asn His Leu Ile Glu Gly Ser Gln Lys Cys Val Ala
41 65      70      75      80
42 Glu Leu Gly Pro Gln Ala Val Gly Ala Val Lys Ala Leu Lys Ala Leu
43      85      90      95
44 Leu Gly Ala Leu Thr Val Phe Gly
45      100
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 86
49 <212> TYPE: PRT
50 <213> ORGANISM: Homo sapiens
52 <400> SEQUENCE: 2
53 Arg Ala Phe Leu Val Gly Ser Ala Lys Pro Val Ala Gln Pro Val Ala
54 1      5      10      15
55 Ala Leu Glu Ser Ala Ala Glu Ala Gly Ala Gly Thr Leu Ala Asn Pro
56      20      25      30
57 Leu Gly Thr Leu Asn Pro Leu Lys Leu Leu Leu Ser Ser Leu Gly Ile

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,817

DATE: 06/12/2002

TIME: 11:25:27

Input Set : A:\00530-094001.TXT

Output Set: N:\CRF3\06122002\J081817.raw

```

58          35          40          45
59 Pro Val Asn His Leu Ile Glu Gly Ser Gln Lys Cys Val Ala Glu Leu
60          50          55          60
61 Gly Pro Gln Ala Val Gly Ala Val Lys Ala Leu Lys Ala Leu Leu Gly
62 65          70          75          80
63 Ala Leu Thr Val Phe Gly
64          85
66 <210> SEQ ID NO: 3
67 <211> LENGTH: 312
68 <212> TYPE: DNA
69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 3
72 atgaagctcg ccgccctcct ggggctctgc gtggccctgt cctgcagctc cgctcgtgct      60
73 ttcttagtgg gctcgcccaa gcctgtggcc cagcctgtcg ctgcgctgga gtcggcgcg      120
74 gagggcgggg ccgggaccct ggccaacccc ctgggcaccc tcaacccgct gaagctcctg      180
75 ctgagcagcc tgggcatccc cgtgaaccac ctcatagagg gctcccagaa gtgtgtggct      240
76 gagctgggtc cccaggccgt gggggccgtg aaggccctga aggcctgct gggggccctg      300
77 acagtgtttg gc                                     312
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 258
81 <212> TYPE: DNA
82 <213> ORGANISM: Homo sapiens
84 <400> SEQUENCE: 4
85 cgtgctttct tagtgggctc ggccaagcct gtggcccagc ctgtcgtctg gctggagtcg      60
86 gcggcgaggg ccggggccgg gacctggcc aacccctcgc gcaccctcaa cccgctgaag      120
87 ctctgctgta gcagcctggg catccccgtg aaccacctca tagagggctc ccagaagtgt      180
88 gtggctgagc tgggtcccca ggccgtgggg gccgtgaagg cctgaaggc cctgctgggg      240
89 gccctgacag tgtttggc                                     258
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 104
93 <212> TYPE: PRT
94 <213> ORGANISM: Mus musculus
96 <400> SEQUENCE: 5
97 Met Lys Leu Thr Thr Phe Leu Val Leu Cys Val Ala Leu Leu Ser
98 1          5          10          15
99 Asp Ser Gly Val Ala Phe Phe Met Asp Ser Leu Ala Lys Pro Ala Val
100          20          25          30
101 Glu Pro Val Ala Ala Leu Ala Pro Ala Ala Glu Ala Val Ala Gly Ala
102          35          40          45
103 Val Pro Ser Leu Pro Leu Ser His Leu Ala Ile Leu Arg Phe Ile Leu
104          50          55          60
105 Ala Ser Met Gly Ile Pro Leu Asp Pro Leu Ile Glu Gly Ser Arg Lys
106 65          70          75          80
107 Cys Val Thr Glu Leu Gly Pro Glu Ala Val Gly Ala Val Lys Ser Leu
108          85          90          95
109 Leu Gly Val Leu Thr Met Phe Gly
110          100
112 <210> SEQ ID NO: 6
113 <211> LENGTH: 85

```

RAW SEQUENCE LISTING

DATE: 06/12/2002

PATENT APPLICATION: US/10/081,817

TIME: 11:25:27

Input Set : A:\00530-094001.TXT

Output Set: N:\CRF3\06122002\J081817.raw

```

114 <212> TYPE: PRT
115 <213> ORGANISM: Mus musculus
117 <400> SEQUENCE: 6
118 Val Ala Phe Phe Met Asp Ser Leu Ala Lys Pro Ala Val Glu Pro Val
119 1 5 10 15
120 Ala Ala Leu Ala Pro Ala Ala Glu Ala Val Ala Gly Ala Val Pro Ser
121 20 25 30
122 Leu Pro Leu Ser His Leu Ala Ile Leu Arg Phe Ile Leu Ala Ser Met
123 35 40 45
124 Gly Ile Pro Leu Asp Pro Leu Ile Glu Gly Ser Arg Lys Cys Val Thr
125 50 55 60
126 Glu Leu Gly Pro Glu Ala Val Gly Ala Val Lys Ser Leu Leu Gly Val
127 65 70 75 80
128 Leu Thr Met Phe Gly
129 85
131 <210> SEQ ID NO: 7
132 <211> LENGTH: 312
133 <212> TYPE: DNA
134 <213> ORGANISM: Mus musculus
136 <400> SEQUENCE: 7
137 atgaagctta ccaccacctt tctagtgtc tgtgtggctc tgctcagtga ctctggtgtt 60
138 gctttcttca tggactcatt ggccaagcct gcggtagaac ccgtggccgc cttgctcca 120
139 gctgcagagg ctgtggcagg ggctgtgcct agcctacat taagccactt ggccatcctg 180
140 aggttcatcc tggccagcat gggcatccca ttggatcctc tcatagaggg atccaggaag 240
141 tgtgtcaccg agctgggccc tgaggctgta ggagctgtga agtcactgct gggggtcctg 300
142 acaatgttcg gt 312
144 <210> SEQ ID NO: 8
145 <211> LENGTH: 255
146 <212> TYPE: DNA
147 <213> ORGANISM: Mus musculus
149 <400> SEQUENCE: 8
150 gttgctttct tcatggactc attggccaag cctgcggtag aaccctgtggc cgcccttget 60
151 ccagctgcag aggtgttggc aggggtgtgt cctagcctac cattaagcca cttggccatc 120
152 ctgaggttca tcctggccag catgggcata ccattggatc ctctcataga gggatccagg 180
153 aagtgtgtca ccgagctggg cctgagggtc gtaggagctg tgaagtcact gctgggggtc 240
154 ctgacaatgt tcggt 255
156 <210> SEQ ID NO: 9
157 <211> LENGTH: 23
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: primer
164 <400> SEQUENCE: 9
165 gagggaaagt tttttttatt tgg 23
167 <210> SEQ ID NO: 10
168 <211> LENGTH: 22
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,817

DATE: 06/12/2002

TIME: 11:25:27

Input Set : A:\00530-094001.TXT

Output Set: N:\CRF3\06122002\J081817.raw

```

173 <223> OTHER INFORMATION: primer
175 <400> SEQUENCE: 10
176 caaaactaac aaaacaaaac ca
178 <210> SEQ ID NO: 11
179 <211> LENGTH: 24
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: primer
186 <400> SEQUENCE: 11
187 gttaagagga agttttcgag gttc
189 <210> SEQ ID NO: 12
190 <211> LENGTH: 24
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: primer
197 <400> SEQUENCE: 12
198 ggtacgggtt ttttacggtt cgtc
200 <210> SEQ ID NO: 13
201 <211> LENGTH: 22
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: primer
208 <400> SEQUENCE: 13
209 aacttcttat acccgatcct cg
211 <210> SEQ ID NO: 14
212 <211> LENGTH: 24
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: primer
219 <400> SEQUENCE: 14
220 gttaagagga agtttttgag gttt
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 24
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: primer
230 <400> SEQUENCE: 15
231 ggtatgggtt ttttatggtt tggt
233 <210> SEQ ID NO: 16
234 <211> LENGTH: 25
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: primer

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/081,817

DATE: 06/12/2002
TIME: 11:25:27

Input Set : A:\00530-094001.TXT
Output Set: N:\CRF3\06122002\J081817.raw

241 <400> SEQUENCE: 16
242 caaaacttct tatacccaat cctca
244 <210> SEQ ID NO: 17
245 <211> LENGTH: 21
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: primer
252 <400> SEQUENCE: 17
253 tttccctgct tccacactag c
255 <210> SEQ ID NO: 18
256 <211> LENGTH: 21
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: primer
263 <400> SEQUENCE: 18
264 agattaagaa ggaattgacc t
266 <210> SEQ ID NO: 19
267 <211> LENGTH: 547
268 <212> TYPE: DNA
269 <213> ORGANISM: Homo sapiens
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <222> LOCATION: 186
274 <223> OTHER INFORMATION: n = C or G
276 <400> SEQUENCE: 19
277 cggccgggga ggcggccggg agtgaggcct gatcgctccct ggcgcctcca cctccccagg
278 cgcagaaggc gccacagagg acccccagtg cccgacgttg ccacggtctg ggatcagagg
279 cagggaccag ggagccagga actgcgcgcg cccgcctctg cctggcgaga ggaagctccc
280 **tcaccnagg** **gaagctcccc** **tcaccgggcc** **cagccctgag** **gggggcgcgt** **ggggtcagac**
281 cgcaaagcga aggtgcgggc cggggtgggc ctgcgggaga caaaggccgg gcctgcctct
282 ctcaagaggc cccagcgctt gccaaagagg agtcctcgag gcccgggcag ggaagggggc
283 acgggcttcc cagggccgcg cggccgcagc aggaagtgtg ccagggcacg gccgtgagcg
284 gagcgggcag ggctttctca ggagcgcggg cgaggccggc gctggagggg cgaggaccgg
285 gtataagaag cctcgtggcc ttgccggggc agccgcagggt tccccgcgcg ccccgagccc
286 ccgcgcc
288 <210> SEQ ID NO: 20
289 <211> LENGTH: 279
290 <212> TYPE: DNA
291 <213> ORGANISM: Rattus norvegicus
293 <400> SEQUENCE: 20
294 gttctctgtt ttgtgttggt aggcgttgct ttcttggtgg attcactggc caagcctgtg
295 gtagaaccgc tggctgcat tgctacagct gcagaggctg tggcaggggc tgtgcctagc
296 ctaccattaa gccacttggc catcctgagg ttcatcgtga ccagcctggg catcccattg
297 gatcctctca tagatggttc caggaagtgc gtcaccgagc tgggcccctga ggctgtagga
298 gctgtgaagt cactgctggg ggccctgaca acgttcggg
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 93

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/081,817

DATE: 06/12/2002
TIME: 11:25:28

Input Set : A:\00530-094001.TXT
Output Set: N:\CRF3\06122002\J081817.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:19; N Pos. 186